## SILVER WEDDING FUND.

*No. Fl.* 2650—*G. F.* 42-18, *dated* 30*th November* 1918.

The following list shows the amount of subscriptions collected in the Mysore State (excluding the Civil and Military Station, Bangalore) towards Their Imperial Majesties' Silver Wedding Fund, up to the end of October 1918. Further collections are in progress and will go on up to 31st December 1918.

| | Rs. | a. | p. |
|---|---|---|---|
| Her Highness the Maharani, C. I. ... ... ... | 10,000 | 0 | 0 |
| Ladies of Bangalore City ... ... ... | 6,984 | 0 | 0 |
| Ladies of Bangalore District (excluding Bangalore City) ... | 165 | 11 | 6 |
| Ladies of Kolar District including the Kolar Gold Fields ... | 2,055 | 2 | 7 |
| Ladies of Shimoga District ... ... ... | 209 | 1 | 9 |
| Ladies of Kadur District ... ... ... | 352 | 3 | 0 |
| Ladies of Chitaldrug District ... ... ... | 1,097 | 12 | 9 |
| Ladies of Mysore District ... ... ... | 2,164 | 0 | 2 |
| Ladies of Hassan District ... ... ... | 169 | 3 | 0 |
| Ladies of Tumkur District ... ... ... | 1,234 | 11 | 1 |
| Total ... | 24,431 | 13 | 10 |

J. S. CHAKRAVARTI,
*Financial Secretary.*

## DEPARTMENT OF GEOLOGY.

*No.* 1327, *dated* 20*th November* 1918.

MEMORANDUM.

In the extract of Rule 27 of the Rules for the grant of mineral licenses and leases, quoted in this Office Memorandum No. 1066, dated 30th October 1918, for the words "seven days," substitute "two months," in pursuance of Government Notification No. G. 8915—Geol. 32-18-2, dated the 16th November 1918.

M. VARADAIYA,
For *Offg. Director.*

# EDUCATION DEPARTMENT.

## UNIVERSITY OF MYSORE.

*Notification No.* 3850, *dated* 29*th November* 1918.

In the list of text-books in Kannada for the B. A. Degree Examination of 1921, published under this Office Notification No. 6128, dated 26th February 1918, the following has been omitted for the said Examination.

"Yasodhara Charite by Janna."

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*Notification No.* 3869, *dated* 29*th November* 1918.

It is hereby notified that the University Entrance Examination of 1919 will commence from Monday the 7th April 1919 and the Final Examination for the B.A. and B.Sc. Degrees and the Intermediate Examination in Engineering from Monday the 24th March 1919 according to the Time Tables to be published later.

2. The Entrance Examination will be held both at Bangalore and Mysore and the Final Examination for the B.Sc., Decree and the Intermediate Examination in Engineering at Bangalore only.

As regards the B.A. Degree Examination, candidates will be examined in English and 2nd Language both at Bangalore and Mysore, in optional subjects—Group III A. (Ordinance 64, page 34 of the Calendar) at Bangalore and in Group III B. at Mysore.

3. Applications for the Entrance Examination should reach the Registrar on or before Friday the 31st January 1919 through the Head Masters and those for the B.A., B.Sc., and Intermediate Engineering Examinations on or before Thursday the 16th January 1919 through the Principals of the Institutions concerned.

4. Private candidates for the Entrance and the B.A. Degree Examinations should send in their applications by the same dates and through the Head Masters and Principals of the Institutions in which they studied previously.

5. Forms of applications can be had from the Head Masters and Principals of the Institutions concerned.

*Notification No.* 3875, *dated* 29*th November* 1918.

It is hereby notified that the University of Madras is prepared on the recommendation of the Faculty of Law to accept the B. A. Degree Course of the Mysore University as a sufficient test of preliminary qualification for admission to the Law Courses of that University. Students wishing to join the Madras Law Course should submit their applications in accordance with the following instructions:—

(*a*) Each application for such recognition should be forwarded through the Principal of the College in which the applicant seeks admission and should state.

(1) The place of his residence at the time he appeared for the examination of this University.

(2) The reason for his non-appearance at the corresponding examination of the Madras University,

and

(3) Why he now desires to study in a college affiliated to the Madras University.

(*b*) It should also be accompanied by

(1) a certificate from the Registrar of the Mysore University at which he passed the examination for which recognition is sought, stating that there is no objection to the transfer of the applicant to the Madras University,

and

(2) satisfactory evidence of his having passed the examination of this University.

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Extract from the Report of the Meeting of the Board of Studies in English and French held on June 26, 1918 at Bangalore.

* * * * * * *

M. A. SCHEME.

III. *Resolved* that the following scheme and syllabus of study in the M. A. Course in English be recommended to the Senate for adoption:—

1. The examination for the M. A. degree in English shall be held once a year commencing on.....

2. No candidate shall be eligible for the M. A. degree until he has passed his B. A. degree examination in this University or an examination in some other University recognised by the Council as equivalent thereto. Each candidate must forward with his application his B. A. or other accepted diploma.

3. The M. A. degree shall be given in three classes. The following percentages of marks shall determine these classes—

| | |
|---|---|
| First class | ... 60 per cent and above. |
| Second class | ... 50 per cent and above. |
| Third class | ... 40 per cent and above. |

4. No candidate shall be allowed to appear for the M. A. degree examination until he has completed at least two Academical years after passing his B. A. degree examination. Attendance in the M. A. Class shall be compulsory for two Academical years, and thereafter optional. Exemption may be given by the Council in exceptional circumstances and will be given in the case of all employees of the Education Department.

5. The examination shall consist of written tests only. The papers shall be distributed as under—

Each paper to be of three hours' duration and each paper to carry the marks shown against it—

*A.* i. Essay ... ... ... ... ... 150 marks.

ii. History of the English language which shall include the elements of phonology and of philology, accidence and syntax ... ... ... ... 100 marks.

iii. History of English literature, including questions on literary criticism and style in prose and verse ... ... ... ... ... 100 marks.

*B.* The Elizabethan Period.

Two papers: one on Shakespeare and the Elizabethan drama, one on prose and poetry ... ... ... ... 100 marks each paper.

*C.* A Special Period—two papers ... ... ... 150 marks each.

The following periods will be taken in rotation—

Victorian literature
The literature of the period 1780—1830
The Age of Pope and Johnson.
The Age of Milton and Dryden.

*D.* Old English and Middle English or Chaucer—one paper ... 150 marks.

*Under A.*

There shall be an essay paper giving a wide option. One essay shall be written on a general subject arising out of the history and criticism of English literature.

For the paper on the history of the language, candidates will be expected to be familiar with such information as is contained in books such as—

Bradley's Making of English
Wyld—Historical Study of the Mother Tongue
Pearsall Smith—English Language.

For the third paper, the following books are suggested for reference :—

Saintsbury's History of English Criticism and Saintsbury's Loci Critici, Winchester's Principles of Literary Criticism, Rannie's Elements of Style.

*Under B.*

The first paper shall be on Shakespeare and the Elizabethan drama. Four or five plays of Shakespeare shall be prescribed to serve as a basis for a general knowledge of Shakespeare. Selected dramas of other Elizabethan dramatists shall also be prescribed. Candidates shall not be asked detailed annotation questions. General questions relating to Shakespeare's life and to the study and criticism of his works shall be asked.

The second paper shall be on certain prescribed texts in Elizabethan prose and poetry as detailed in the syllabus.

*Under C.*

There shall be two papers devoted to the Special Period based on prescribed texts and these papers shall include general, literary and critical questions arising from a study of the period.

*Under D.*

There shall be one paper under either alternative Old and Middle English or Chaucer. The Old and Middle English paper shall be set on prescribed texts in Old and Middle English as detailed in the syllabus and shall contain both language and general literary and textual questions arising out of the prescribed texts. The paper on Chaucer shall be based on certain prescribed portions of Chaucer as detailed in the syllabus and shall contain both language and general literary and textual questions arising therefrom.

SYLLABUS OF PRESCRIBED TEXTS.

*Under B.*

*The Elizabethan Period.*

| | | |
|---|---|---|
| First Paper —Shakespeare | ... | Richard II, Much Ado about Nothing. Hamlet, The Tempest. |
| Kyd | ... | The Spanish Tragedy. |
| Marlowe | ... | Edward II. |
| Ben Jonson | ... | Every Man in his Humour. |
| Webster | ... | The Duchess of Malfi. |
| Second Paper—Spenser | ... | Faerie Queene Book II. The Shepherd's Kalendar. |
| Anthology of the Age of Shakespeare, *ed.* W. T. Young. | | |
| Ascham | ... | Scholemaster. |
| Sidney | ... | Apologie for Poetrie. |
| Hakluyt | ... | Select Narratives in the Voyages of English Seamen. (First Series) *ed.* E. J. Payne. |
| Bacon | ... | New Atlantis. |

*Under C.*

*Victorian Literature.*

| | | |
|---|---|---|
| Carlyle | ... | Biographies of Goethe, Johnson, Burns and Scott. |
| Newman | ... | The Rise and Progress of Universities. |
| Arnold | ... | Essays in Criticism (Second Series). |
| Hardy | ... | Far from the Madding Crowd. |
| Thackeray | ... | Vanity Fair. |
| Browning | ... | Pippa Passes. |
| Tennyson | ... | In Memoriam. |
| Swinburne | ... | Atalanta in Calydon. |
| Arnold | ... | Elegiac Poems. |

*Under D.*

*Old English and Middle English Texts.*

Beowulf—LL. 1—1251.
Sweet—Anglo-Saxon Reader 8th Edition I. II. IV. V. VIII. X. XVI.

Morris—Specimens of Early English Part I.
II. The State of England in Stephen's Reign.
IX. The Ancren Riwle.
XVI. The Owl and the Nightingale.

Morris and Skeat—Specimens of Early English, Part II.
IV. Specimens of Lyric Poetry.
XIV. Sir John Mandeville.
XV. William Langland Piers the Plowman (Prologue and Passus I).

*Chaucer.*

The Prologue.
The Knights Tale.
The Hous of Fame.
The Parlement of Foules.

*"Extract."*

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PROCEEDINGS OF THE NINTH MEETING OF THE SENATE HELD IN THE HALL OF THE MAHARAJA'S COLLEGE, MYSORE, ON WEDNESDAY THE 16TH OCTOBER 1918 AT 1 P.M.

PRESENT.

Rajamantrapravina H. V. Nanjundayya, Esq., M.A., M.L., C.I.E.,

*Vice-Chancellor and Chairman.*

1. Mr. Thos. Denham, M.A.
2. ,, E. P. Metcalfe, B.SC.
3. ,, N. S. Subba Rao, M.A.
4. Rajamantrapravina Dewan Bahadur Mr. J. S. Chakravarti, M.A., F.R.A.S.
5. Rao Bahadur Mr. M. C. Rangiengar, B.A.
6. Rajakaryaprasakta, Rao Bahadur Mr. M. Shama Rao, M.A.
7. Mr. Mir. Humza Hussein, B.A., B.L.
8. ,, J. C. Rollo, M.A.
9. ,, F. L. Usher, B.SC.
10. ,, F. R. Sell, M.A.
11. ,, E. G. McAlpine, M.A.
12. ,, A. B. Mackintosh, M.A.
13. Dr. Radhakumud Mookerji, M.A., PH.D.
14. Mr. A. R. Wadia, B.A., Bar.-at-Law.
15. ,, K. T. Shah, B.A., B.SC., Bar.-at-Law.
16. ,, S. Radhakrishnan, M.A., L.T.
17. Mr. M. Basava Iya, B.A., B.L.
18. ,, M. Venkatakrishnayya.
19. ,, P. G. D'Souza, B.A., B.L.
20. ,, P. S. Achyuta Rao, L.M.S.
21. Rajasabhabhushana Dewan Bahadur Mr. C. Srikantesvara Aiyar, B.A., B.L.
22. Mr. S. R. Balakrishna Rao, B.A., LL.B.
23. ,, D. Venkataramayya, B.A., L.T.
24. The Rev. A. R. Fuller, B.A.
25. Mr. M. Hiriyanna, M.A., L.T.
26. ,, B. Venkatanaranappa, M.A.
27. The Rev. Father Tabard, M.A.
28. Mr. Srinivasacharya, Cadambi, B.A., L.C.E.
29. ,, K. Chandy, B.A.
30. ,, K. Matthan, B.A.
31. ,, S. Hiriyannaiya, M.A., B.L.
32. ,, C. S. Doraswamy Iyer, B.A., B.L.
33. Dr. B. G. Srinivasacharya, B.A., M.B.C.M.

ABSENT.

1. Mr. C. R. Reddy, M.A.
2. Sir Leslie C. Miller, Kt.
3. Mr. K. R. Seshachar, B.A., B.E.
4. ,, V. S. Sambasiva Iyer, B.SC., L.C.E.
5. ,, M. T. Narayana Iyengar, M.A.
6. Dr. H. B. Mylvaganam, F.R.C.S.
7. Mr. R. H. Campbell, C.I.E.
8. ,, B. M. Srikantia, M.A., B.L.
9. Dr. M. Srinivasa Rao, M.A., M.D., D.P.H., etc.
10. Mr. B. Venkatesachar, M.A.
11. Munir-ul-talim Mr. H. J. Bhabha, M.A.
12. Mr. T. Paramasiva Iyer, B.A.
13. Rajakaryapravina Rao Bahadur Mr. T. V. Arumugam Mudaliar, M.B.C.M.
14. Rajasabhabhushana Mr. Karpur Shrinivasarav, B.SC., L.C.E.
15. Mr. S. G. Forbes, B.SC., etc.
16. ,, V. Rangaswamy Iyengar, A.C.E., B.C.E.
17. ,, Mirza M. Ismail, B.A.
18. ,, P. Raghavendra Rao, B.A., B.L.
19. Dr. H. E. Watson, D.SC., A.I.C.
20. Mr. C. S. Balasundaram Iyer, B.A.
21. ,, Nawab Gulam Ahmad Kalami.
22. Sri K. D. Rukminiamma, B.A.

I. The following questions by Mr. S. R. Balakrishna Rao were answered by the Vice-Chancellor :—

*Question.*—(i) Will the Council be pleased to state whether any Lecturer or Headmaster of any of the Collegiate Classes in the State is a member of any of the Faculties ?

*Answer.*—No Headmaster or Lecturer was appointed as such. But the Rev. A. R. Fuller, B.A. and the Rev. R. W. Boote, B.Sc., Principals of the Wesleyan Mission High Schools, Bangalore and Mysore, (which are now Collegiate High Schools) are members of the Faculty of Arts.

*Question.*—(ii) If not, will the Council be pleased to appoint one such officer for each of the Faculties, as this would bring about a close association of the teaching staff of the Collegiate classes with the working of the Faculties?

*Answer.*—The matter will be considered when making appointments on the next occasion.

*Question.*—(iii) Is the attention of the Council drawn to the fact that there is no language graduate employed to lecture in English to the University Entrance Class in Shimoga and that the staff in the Mysore Collegiate School is insufficient to meet the needs of the University Entrance Class there?

*Question.*—(iv) If so, have the Council taken any and what steps to get employees for these classes graduates with English as their optionals? If not, will the Council takes early steps in the matter in view of the fact that the majority of the failures in the last University Entrance Examination were failures in English alone?

*Answer.*—Enquiry is being made and such steps as are open to the University under the Ordinances and may be necessary will be taken.

II. That the following be inserted as clause (*l*) under Ordinance 13 :—

(*l*) To decide what examinations they will accept as equivalent to those of the Mysore University.

Moved by Mr. M. C. Rangiengar and seconded by Mr. M. Shama Rao.

*Passed* unanimously.

III. That in Ordinance 18 the following be substituted for items (i) and (ii) and the rest re-numbered suitably :—

(i) English
(ii) French
(iii) Kannada
(iv) Telugu
(v) Tamil

Moved by Mr. M. C. Rangiengar and seconded by Mr. M. Shama Rao.

*Passed* unanimously.

IV. That the following be added to Ordinance 62 as the first sentence :—

"Bachelors of Arts of any Indian University may be admitted to the M.A. Courses of this University provided they have passed their degree examinations in cognate subjects."

Moved by Mr. N. S. Subba Rao and seconded by Mr. S. Cadambi.

All except one voted in favour. *Passed.*

V. That the following be added after Ordinance 62 as Ordinances 62 A and 62 B :—

62 A. A Bachelor of Arts, who has graduated in Science may proceed to the M.Sc. Degree after a three years' course subsequent to his graduation, and

62 B. A Bachelor of Science may proceed to the M.A. Degree in English after a three years' course.

Moved by Mr. N. S. Subba Rao. The two parts were taken up for consideration separately. The first part was seconded by Mr. M. C. Rangiengar.

Mr. Mir Humza Hussein opposed the proposition. He considered that only those who had special aptitude for higher Science should study for the M.Sc. Degree.

Mr. Metcalfe supported the proposition.

Mr. Metcalfe was of opinion that only selected graduates should be permitted to proceed to the M.Sc. Course.

In finally replying, Mr. N. S. Subba Rao, explained that what had been proposed was only an enabling provision and that it was always open for the College to declare that a particular candidate was not fit for the M.Sc. Course.

The proposition was then put to the vote.

10 voted for and 21 against. *Lost.*

Part II was moved by Mr. N. S. Subba Rao and seconded by Mr. M. C. Rangiengar.

Mr. McAlpine opposed.

Proposition was then put to the vote. *Lost,* all except 3 being against.

VI. (*a*) Change the fullstop at the end of Ordinance 74 to a semicolon and add :—

Provided also that a candidate who has obtained not less than 40 per cent in one of the groups of (*a*) English and the second language and (*b*) Optional Subjects, shall not be examined in that group when he appears at a subsequent examination.

(*b*) The new proviso shall also be applied to the Entrance Examination of 1918.

(*a*) Moved by Mr. N. S. Subba Rao in the absence of Mr. C. R. Reddy and seconded by Mr. M. C. Rangiengar.

Mr. D. Venkataramiah in opposing the proposition stated that the compartment system would tend to lower the standard of the Entrance Examination which was not desirable, that the standard of the S. S. L. C. Examination was somewhat fluctuating and that the analogy as regards the S. S. L. C. and the B.A. Degree Examination for the introduction of the compartment system in the Entrance Examination did not hold good.

The Rev. A. R. Fuller also opposed.

At this stage, Mr. B. Venkatanaranappa moved the following amendment:—

Substitute for the words—

"In one of the groups of (*a*) English and the second language and (*b*) optional subjects."

The following:—

"In the group—English and the second language."

He remarked that students of the Entrance Classes were very poor in their subjects and illustrated the statement by quoting examples of actual answers given by candidates. The amendment fell through, as it did not find a seconder.

In supporting the proposition, Mr. S. R. Balakrishna Rao stated that the compartment system in no way tended to lower the standard. Under the compartment system students would devote their best attention to that part of the subject in which they were deficient, and would be able to specialise in their subjects much more than they could under the present system.

Mr. McAlpine opposed the proposition. He remarked that we should draw a difference between education in the University and education in preparation for the University, that the system was not in force in the Scottish Universities and that its introduction would afford much opportunity for students to waste their time.

Mr. N. S. Subba Rao explained that the system was in force at Cambridge and that the time-table might be so arranged as to make the students do library or some other work.

Dr. Radhakumud Mookerji opposed the proposition and said that one should have an assurance of general culture of a definite standard before the University was entered, and he suggested that the subject might be postponed.

Mr. Mir Humza Hussein supported the proposition.

Mr. J. S. Chakravarti in strongly supporting the proposition remarked that the introduction of the system as contemplated in the proposition did not in any way lower the standard but on the contrary was quite compatible with a high standard, that the question of efficiency had nothing to do with the subject under consideration, that the standard depended on teaching, text-books, etc., that the proposition fixed a high percentage of 40 per cent limit for allowing the concession and that to say the compartment system in itself lowered the standard was illogical.

With reference to Mr. B. Venkatanaranappa's remarks, he stated that there were two classes of examiners, one class trying to see what the candidates knew, and the other class trying to see what the candidates did not know, and that the latter class often got unexpected answers.

He further added that the strain of the examination should be lightened and that the course proposed was very desirable.

Messrs. Sell and Hiriyannaiya opposed the proposition.

Mr. N. S. Subba Rao in finally replying to the several objections raised, stated that it was most undesirable to have failed students in the class as they took very little interest in the subjects in which they had previously received instruction.

The proposition was then put to the vote.

16 voted for and 15 against.

*Passed.*

(*b*) The new proviso shall also be applied to the Entrance Examination of 1918.

Moved by Mr. N. S. Subba Rao and seconded by Rev. A. R. Fuller.

20 voted for and 8 against.

*Passed.*

VII. That in Ordinance 79 the words "In Mysore in April" be deleted.

Moved by Mr. K. T. Shah and seconded by Mr. N. S. Subba Rao.

*Passed* unanimously.

VIII. That Ordinances 81 and 88 be omitted.

Moved by Mr. K. T. Shah and seconded by Mr. N. S. Subba Rao.

*Passed* unanimously.

IX. That Ordinances 84, 85 and 86 (page 40 of the Calendar) be amended as hereunder:—

(i) *Ordinance 84*: Change "40" into "35," "60" into "60" and the words "those obtaining 50 per cent" into "the rest."

(ii) *Ordinance 85*: Change "55" into "50," omit the words "be allowed to pass" at the end and insert "also be placed in the II class."

(iii) *Ordinance 86*: Omit the words "and pass" after the word "class."

Moved by Mr. K. T. Shah and seconded by Mr. A. R. Wadia.

Mr. N. S. Subba Rao suggested that as the question was under the consideration of the Board of Studies in Commerce, the proposition might be postponed. Mr. Shah (the mover) accepted the suggestion. *Postponed.*

For the same reason, the following proposition was also *postponed*:—

That for the Ordinance 87 (*vide* page 40 of the Calendar) the following be substituted:—

A candidate who fails to pass the examination on the first occasion on which he presents himself shall pay the prescribed fee of Rs. 36 on each occasion he presents himself for the examination.

X. (*a*) That in Ordinance 99 (i) the word "Registrar" be substituted for the word "Secretary."

Moved by Mr. Thos. Denham and seconded by Mr. N. S. Subba Rao.

*Passed* unanimously.

(*b*) That in proviso under Ordinance 99 (ii) the word "three" be changed into "six."

Moved by Mr. Thos. Denham and seconded by Mr. D. Venkataramaiya.

*Passed* unanimously.

(*c*) That in Ordinance 100, Rs. 15 be substituted for Rs. 25.

Moved by Mr. Thos. Denham and seconded by Mr. M. C. Rangiengar.

*Passed* unanimously.

XI. That the following be inserted as clauses (2) and (3) after Ordinance 101 (1) the present clause (2) being re-numbered as (4):—

(2) The fee for one part of the B.A. Course shall be one-half of the fee for both the parts.

(3) The fee for the M.A. Course shall be the same as that for the B.A. Course.

Moved by Mr. Thos. Denham and seconded by Mr. N. S. Subba Rao.

Mr. B. Venkatanaranappa moved the following amendment which was seconded by Mr. E. P. Metcalfe:—

Substitute for XII (3) the following:—

"The fee for the Master's degree course shall be the same as that for the Bachelor's degree course."

The amendment was put to the vote.

15 voted for and none against. Passed.

The proposition as amended was put to the vote.

*Passed* unanimously.

XII. That the following be added to Ordinance 103:—

The fee for one part of the Entrance or the B.A. Examination shall be one-half of the fee prescribed for the whole Examination.

Moved by Mr. Thos. Denham and seconded by Mr. N. S. Subba Rao.

*Passed* unanimously.

XIII. (*a*) That the following be added to Ordinance 114 (page 44 of the Calendar):—

The Wesleyan Mission High School, Bangalore:—Subjects included in III (*b*) of Ordinance 57.

The Wesleyan Mission High School, Mysore:—Subjects included in III (*b*) of Ordinance 57.

(*b*) That in the same Ordinance, for the words "subjects included in III (*b*) of Ordinance 57" after "Tumkur" substitute the words "Subjects included in III of Ordinance 57 except Natural Science."

Moved by Mr. N. S. Subba Rao and seconded by Mr. M. Basava Iya.

*Passed* unanimously.

XIV. That for the existing courses of study in Sanskrit as an optional subjects for the B. A. Degree (*vide* page 87 of the Calendar) the revised courses as given below be substituted:—

GROUP I.—*Sáhitya* (Classical Literature and Criticism)—

(*a*) Selections in prose and poetry from epic and later classical literature.

(*b*) Two prescribed dramas.

The student will be expected to possess a knowledge of the elements of *Prakrit* grammar and of dramaturgy.

(*c*) General principles of Sanskrit poetics together with a prescribed classic on the subject.

(*d*) Grammar and History of the Sanskrit Language including the study of a select portion of the *Siddhánta Kaumudi.*

(*e*) History of classical literature and criticism with special reference to books prescribed under (*a*), (*b*) and (*c*).

(*f*) Translation of unseen passages from Sanskrit into English and *vice versa*.

GROUP II:—*Vedic Studies.*

(*a*) Selections representative of the several stages of Vedic Literature:—*Mantra, Bráhmana* and *Sútra*.

(*b*) Elements of Indo-Germanic philology and comparative grammar with special reference to Sanskrit, according to a syllabus.

(*c*) Vedic grammar.

(*d*) History of Vedic literature with special reference to books prescribed under (*a*).

(*e*) Translation into English of simple unseen Vedic passages.

GROUP III:—*Darsanas* (Philosophical Literature)—

(*a*) Selections representative of the earlier philosophical literature—Upanishads and Epics.

(*b*) Selections representative of the *Vedánta* and other philosophical systems.

(*c*) Elements of *Tarka* according to prescribed book like the *Tarkasangraha* with *Dipiká*.

(*d*) History of Indian philosophy with special reference to books prescribed under (*a*) and (*b*).

Moved by Mr. M. Hiriyanna and seconded by Dr. R. K. Mookerji.

*Passed* unanimously.

XV. That the rules and the courses of study for the M.A. Degree Examination in English as recommended by the Board (as given in the appended note) be approved and inserted in their proper places in the Ordinances.

Moved by Mr. F. R. Sell and seconded by Mr. E. G. McAlpine.

*Passed* unanimously.

XVI. That the proposal of the Board of Studies in History and Economics regarding the special subjects for the M.A. Examination of 1920 in History and Economics as in the appended note be approved.

Moved by Mr. N. S. Subba Rao and seconded by Dr. R. K. Mookerji.

*Passed* unanimously.

XVII. (*a*) That the existing note under 1. English (*vide* page 145 of the Calendar) be omitted and the following substituted:—

There shall be three parts in the composition paper and candidates shall be asked to write three essays one on each of three non-detailed study books.

Moved by Mr. F. R. Sell and seconded by Mr. E. G. McAlpine.

*Passed* unanimously.

(*b*) That the word "General" after "Composition" be omitted.

Moved by Mr. F. R. Sell and seconded by Mr. E. G. McAlpine.

*Passed* unanimously.

XVIII. That the following Scheme of Examinations recommended by the Committee be approved:—

ENTRANCE.

| DAY | TIME | SUBJECT | MAX. MARKS. |
|---|---|---|---|
| First | 10 A.M.—1 P.M. | English Composition | 120 |
| | 2 P.M.—4 P.M. | Second Language texts | 100 |
| Second | 10 A.M.—1 P.M. | English texts | 80 |
| | 2 P.M.—4 P.M. | Second Language Composition or Translation | 100 |
| Third | 10 A.M.—12 noon | Physics I<br>History I | 100 |
| | 2 P.M.—4 P.M. | Physics II<br>History II | 100 |
| Fourth | 10 A.M.—12 noon | Chemistry I<br>Logic I | 100 |
| | 2 P.M.—4 P.M. | Chemistry II<br>Logic II | 100 |
| Fifth | 10 A.M.—12 noon | Mathematics (Algebra and Trigonometry)<br>Natural Science (Zoology)<br>Economic History of England I<br>Sanskrit and Persian texts | 100 |
| | 2 P.M.—4 P.M. | Mathematics (Geometry, Theor. and Prac.)<br>Natural Science (Botany)<br>Economic History of England II<br>Sanskrit and Persian Translation. | 100 |

B. A. & B. Sc. DEGREE.

| DAY. | TIME. | SUBJECT. | MAX. MARKS. |
|---|---|---|---|
| First | 10 A.M.—1 P.M. | B. A. English Drama<br>B. Sc. English texts | 100 |
| | 2 P.M.—5 P.M. | B. A. English Poetry<br>B. Sc. English Composition | 100 |
| Second | 10 A.M.—1 P.M. | B. A. English Prose | 100 |
| | 2 P.M.—5 P.M. | B. A. English Composition | 100 |
| Third | 10 A.M.—1 P.M. | B. A. Second Language—Texts and Grammar. | 100 |
| | 2 P.M.—5 P.M. | B. A. Second Language—Composition, Translation | 100 |
| *Fourth* | | *Holiday.* | |
| Fifth | 10 A.M.—1 P.M. | B. A. Mathematics—(Algebra and Trigonometry)<br>Indian History A.<br>Philosophy I A. | 100 |
| | 2 P.M.—5 P.M. | B. A. Mathematics—(Geometry)<br>Indian History B.<br>Philosophy I B. | 100 |
| Sixth | 10 A.M.—1 P.M. | B. A. Mathematics—(Dynamics)<br>European History A.<br>Philosophy I C. | 100 |
| | 2 P.M.—5 P.M. | B. A. Mathematics—(Calculus and Astronomy)<br>European History B.<br>Philosophy I & II (Special Paper) | 100 |
| Seventh | 10 A.M.—1 P.M. | B. A. Physics A.<br>Economics A.<br>Sanskrit A.<br>Persian A. | 100 |
| | 2 P.M.—5 P.M. | B. A. Physics B.<br>Economics B<br>Sanskrit B.<br>Persian B. | 100 |
| Eighth | 10 A.M.—1 P.M. | B. A. Physics C.<br>Political Science A.<br>Sanckrit C.<br>Persian C. | 100 |
| | 2 P.M.—5 P.M. | B. A. Physics, Practical<br>Political Science B.<br>Sanskrit D.<br>Persian D. | 100 |
| Ninth | 10 A.M.—1 P.M. | B. A. Chemistry A.<br>Philosophy I & II D. | 100 |
| | 2 P.M.—5 P.M. | B. A. Chemistry B.<br>Philosophy II A. | 100 |
| Tenth | 10 A.M.—1 P.M. | B. A. Chemistry C.<br>Philosophy II B. | 100 |
| | 2 P.M.—5 P.M. | B. A. Chemistry Practical<br>Philosophy II C. | 100 |
| *Eleventh* | | *Holiday.* | |
| Twelfth | 10 A.M.—1 P.M. | B. A. Zoology A. | 100 |
| | 2 A.M.—5 P.M. | B. A. Zoology B. | 100 |
| Thirteenth. | 10 A.M.—1 P.M. | B. A. Zoology Practical I | 100 |
| | 2 P.M.—5 P.M. | B. A. Zoology Practical II | 100 |
| Fourteenth. | 10 A.M.—1 P.M. | B. A. Geology A. | 100 |
| | 2 P.M.—5 P.M. | B. A. Geology B. | 100 |
| Fifteenth | 10 A.M.—1 P.M. | B. A. Geology Practical I | 100 |
| | 2 P.M.—5 P.M. | B. A. Geology Practical II | 100 |
| Sixteenth | 10 A.M.—1 P.M. | B. A. Botany A. | 100 |
| | 2 P.M.—5 P.M. | B. A. Botany B. | 100 |
| Seventeenth. | 10 A.M.—1 P.M. | B. A. Botany Practical I | 100 |
| | 2 P.M.—5 P.M. | B. A. Botany Practical II | 100 |

B. Sc. MAIN SUBJECTS.

| | | | |
|---|---|---|---|
| Eighteenth. | 10 A.M.—1 P.M. | Physics A. | 100 |
| | | Chemistry A. | 75 |
| | | Mathematics A. | 100 |
| | | Geology A. | 75 |

B. Sc. MAIN SUBJECTS—*concld.*

| DAY | TIME | SUBJECT | MAX. MARKS. |
|---|---|---|---|
| | 2 P.M.—5 P.M. ... | Physics B. ... ... | 100 |
| | | Chemistry B. ... .. | 75 |
| | | Mathematics B. ... ... | 100 |
| | | Geology B. ... ... | 75 |
| Nineteenth. | 10 A.M.—1 P.M. ... | Physics C. ... ... | 100 |
| | | Chemistry C. . . ... | 75 |
| | | Mathematics C. ... ... | 100 |
| | | Geology C. ... ... | 75 |
| | 2 P.M.—5 P.M. ... | Physics D. ... ... | 100 |
| | | Chemistry D. ... ... | 75 |
| | | Mathematics D. ... ... | 100 |
| | | Geology D. ... ... | 75 |
| Twentieth... | 10 A.M.—1 P.M. ... | Physics Practical ... ... | 100 |
| | | Chemistry Practical .. ... | 150 |
| | | Mathematics E. ... ... | 100 |
| | | Geology Practical ... ... | 200 |
| | 2 P.M.—5 P.M. ... | Physics Practical ... ... | 100 |
| | | Chemistry Practical ... ... | 150 |
| | | Mathematics F. ... ... | 100 |
| | | Geology Practical ... ... | 100 |

*N. B.*—1. Maximum for laboratory records and class progress for all main subjects.....150.

2. In the case of B. Sc. students taking the B. A. Papers in Subsidiary subjects, 100 marks is the maximum allotted for laboratory records.

Moved by Mr. E. P. Metcalfe and seconded by Dr. Radhakumud Mookerji.

Mr. N. S. Subba Rao proposed to move an amendment. The sense of the meeting was taken on that proposal. Fifteen voted in favour and 6 against.

Mr. N. S. Subba Rao then moved that in the B. A. and the B. Sc. Degree Examination Scheme the subjects allotted for the seventh day be transferred to the ninth day, those of the eighth to the tenth, those of the ninth to the seventh and those of the tenth to the eighth.

Mr. K. T. Shah seconded. The amendment was put to the vote. 12 voted for and 8 against.

*Passed.*

The main proposition with amendment was put to the vote.

*Passed* unanimously.

XIX. That in the second para of the English Course for the second and third years B. Sc. Degree Examination (page 88 of the Calendar) the words "three hours" be substituted for the words "two hours."

Moved by Mr. F. R. Sell and seconded by Mr. E. G. McAlpine.

*Passed* unanimously.

Before the next subject was taken up for discussion, Rao Bahadur Mr. M. C. Rangiengar rose and spoke as follows regarding the premature death of Mr. S. V. Setti.

Mr. Vice-Chancellor.—Before the next proposition on the Agenda is taken up, permit me to bring to the notice of this House the sad and premature death of one of its most valued and respected members—Mr. S. V. Setti. He belonged to an important community in the State. Having graduated in India, he went to Europe to study Mechanical Engineering, passed with high distinction all the examinations there and returned to Mysore not long ago. He was immediately entertained in the Public Service and rendered excellent service as Superintendent of the Mechanical Engineering School and as Professor of Mechanical Engineering in the University. He took a keen interest in the affairs of the University and had generously made over to the University Rs. 100 a month for the term of his life for affording educational facilities to deserving young men of his community. I move that this House do place on record its high appreciation of his merit and its deep sense of regret at his untimely death.

Rajakaryaprasakta, Rao Bahadur Mr. M. Shama Rao spoke as follows:—

Sir,—I rise to associate myself in full with the sentiments expressed by Mr. M. C. Rangiengar regarding the sad and untimely death of Mr. S. V. Setti in very tragic circumstances. I had occasion to know him very intimately for more than five years as Superintendent of the Mechanical Engineering School at Bangalore, and my regret at the loss of a young man of such great promise is heightened by the thought that the cause of Education has lost in him an earnest worker and a man of lofty ideals. He was an ornament to the Vaisya Community to which he belonged, but his interest in his own community was not of that kind which is blind to the general good of the people as a whole. His high ideals did not consist in mere words, but he tried to realise them in actual life by making liberal contributions from his limited income to all movements which tended to realise his ideals. The

last time I saw him was at a gathering of the Vaisya Community at Bangalore, in connection with the celebration of the anniversary of a Students' Society, of which he was the promoter and President; and his enthusiasm for the progress of his country had, I found, gathered considerable force. The death of such a man is not a loss merely to his surviving children or to his community, but a loss to us all as a whole.

The Vice-Chancellor expressed his regret at the death of Mr. Setti. He said Mr. Setti was one of those who showed an extreme love for his countrymen and was thoroughly straightforward and honest in all his relations. One thing that struck him (the Vice-Chancellor) most was that of all the Indian students who went to foreign countries for study, Mr. Setti was the one who jealously kept up the traditon of his country, and even on his return did not wish to dissociate himself from the members of his community in his rules of conduct and mode of life. He was an example of character and preseverance for all. They had lost in him a very valuable member of the Senate, and it was sad to think that not only Mr. Setti, but his wife and one of his children had also been carried off.

The House then passed the following Resolution standing :—

"The Senate desires to place on record its sense of the deep loss sustained by the premature death of Mr. S. Venkata Subba Setti."

XX. That for the existing Course of Studies for the Intermediate Examination in Engineering—(*Vide* page 95 of the Calendar) the revised course as in the appended note be substituted.

In moving the proposition, Mr. S. Cadambi stated that it had been submitted to the House after careful consideration and scrutiny by the Board of Studies in Engineering, which was well represented by all the Engineering Departments such as Mechanical by Mr. S. V. Setti, Electrical by Mr. S. G. Forbes and Civil Engineering by Mr. K. R. Seshachar and that as such the revised course was satisfactory in every respect.

Mr. E. P. Metcalfe supported.

*Passed* unanimously.

XXI. That the following scheme of examination in Engineering be approved :—

| No. | Name of subject | No. of papers | Hours | Written paper (Theory) | Practical and oral | Practical work done in the College during the course | Total | Minima for passing |
|---|---|---|---|---|---|---|---|---|
| | *Group I.—Mathematics Pure and Applied.* | | | | | | | |
| 1 | Mensuration, Trigonometry and Algebra. | 1 | 3 | 100 | ... | ... | ... | ... |
| 2 | Analytical and Solid Geometry ... | 1 | 3 | 100 | ... | 25 | ... | ... |
| 3 | Statics and Dynamics ... | 1 | 3 | 100 | ... | ... | ... | ... |
| | Total ... | ... | ... | 300 | ... | 25 | 325 | 25% |
| | *Group II.—Science.* | | | | | | | |
| 4 | Physics, Theory ... ... ... | 1 | 2 | 50 | ... | ... | ... | ... |
| 5 | Physics, Practical ... ... | ... | ... | ... | 30 | 25 | ... | ... |
| 6 | Chemistry, Theory ... ... | 1 | 2 | 50 | ... | ... | .. | ... |
| 7 | Chemistry, Practical ... ... | ... | .. | ... | 30 | 25 | ... | .. |
| 8 | Geology ... ... | 1 | 2 | 60 | ... | ... | ... | ... |
| 9 | Geology, Practical ... ... | ... | ... | ... | 25 | ... | ... | ... |
| 10 | Political Economy ... ... | 1 | 2 | 40 | ... | ... | ... | ... |
| | Total ... | ... | ... | 200 | 85 | 50 | 335 | 25% |
| | *Group III.—Engineering.* | | | | | | | |
| 11 | Building materials and construction | 1 | 3 | 150 | ... | 50 | ... | ... |
| 12 | Estimating ... ... ... | 1 | 3 | 50 | ... | 15 | ... | ... |
| 13 | Workshop Theory ... .. | 1 | 3 | 50 | 50 | 60 | ... | ... |
| | Total ... | ... | ... | 250 | 50 | 125 | 425 | 33⅓ |
| | *Group IV, Surveying.* | | | | | | | |
| 14 | Surveying, Theory ... ... | 1 | 3 | 70 | ... | ... | ... | ... |
| | Surveying, Practical ... ... | .. | ... | ... | 70 | 75 | 215 | 33⅓ |
| | *Drawing Group.—I.* | | | | | | | |
| 15 | Freehand and Geometrical Drawing. | 1 | 3 | 75 | ... | 50 | .. | ... |
| 16 | Mechanical Drawing ... ... | ... | ... | ... | ... | 40 | ... | ... |
| 17 | Building drawing ... .. | 1 | 3 | 75 | ... | 60 | ... | ... |
| | Total ... | ... | ... | 150 | ... | 150 | 300 | 33⅓ |
| | Grand Total ... | 13 | ... | 970 | 205 | 425 | 1,600 | 40% for a pass, 60% for 1st class. |

Moved by Mr. S. Cadambi and seconded by Mr. E. P. Metcalfe.

*Passed* unanimously.

XXII. That the Intermediate Examination in Engineering for the coming year (1919) be conducted under the following scheme :—

| No. | Name of subject | No. of papers | Hours | Written paper (Theory) | Practical and oral | Practical work done during the course | Total | Minimum for passing |
|---|---|---|---|---|---|---|---|---|
| | *Group I.—Mathematics Pure and Applied.* | | | | | | | |
| 1 | Mensuration Trigonometry and Algebra. | 1 | 3 | 100 | ... | .... | ... | ... |
| 2 | Analytical and Solid Geometry ... | 1 | 3 | 100 | | 25 | ... | ... |
| 3 | Differential Calculus .. ... | 1 | 3 | 100 | ... | ... | .. | ... |
| | Total ... | ... | ... | 300 | ... | 25 | 325 | 25% |
| | *Group II.—Science.* | | | | | | | |
| 4 | Physics, Theory .. ... ... | 1 | 2 | 50 | ... | ... | ... | ... |
| 5 | Physics, Practical ... ... | ... | ... | ... | 30 | 25 | ... | ... |
| 6 | Chemistry, Theory ... ... | 1 | 2 | 50 | | ... | ... | ... |
| 7 | Chemistry, Practical ... ... | ... | ... | ... | 30 | 25 | ... | ... |
| 8 | Geology ... ... ... | 1 | 2 | 60 | ... | ... | ... | ... |
| 9 | Geology, Practical ... ... | ... | ... | ... | 25 | ... | ... | ... |
| 10 | Political Economy ... ... | 1 | 2 | 40 | ... | ... | ... | ... |
| | Total ... | .. | ... | 200 | 85 | 50 | 335 | 25% |
| | *Group III.—Engineering.* | | | | | | | |
| 11 | Building materials ... ... | 1 | 3 | 150 | .. | 50 | ... | ... |
| 12 | Estimating ... ... ... | 1 | 3 | 50 | | 15 | ... | ... |
| 13 | Workshop Theory ... ... | 1 | 3 | 50 | 50 | 60 | ... | ... |
| | Total ... | ... | ... | 250 | 50 | 125 | 425 | 33⅓% |
| | *Group IV.—Surveying.* | | | | | | | |
| 14 | Surveying, Theory ... ... | 1 | 3 | 70 | ... | ... | ... | ... |
| | Surveying, practical ... ... | ... | ... | ... | 70 | 75 | 215 | 33⅓% |
| | *Drawing Group.—I.* | | | | | | | |
| 15 | Freehand and Geometrical Drawing. | 1 | 3 | 75 | ... | 50 | ... | ... |
| 16 | Mechanical Drawing ... ... | ... | ... | ... | ... | 40 | ... | ... |
| 17 | Building Drawing ... ... | 1 | 3 | 75 | ... | 60 | .. | ... |
| | Total ... | | ... | 150 | ... | 150 | 300 | 33⅓% |
| | Grand Total ... | 13 | ... | 970 | 205 | 425 | 1,600 | 40% for a pass, 60% for 1st class. |

In moving the proposition, Mr. S. Cadambi explained that the difference between this scheme and the previous one was very slight and was due to the Second Year students having already studied differential calculus, etc., under the old Courses of Studies.

Seconded by Mr. E. P. Metcalfe.

*Passed* unanimously.

XXIII. That in rule 5 of the Rules of Business of the Senate, clause (*a*) be omitted and the rest re-numbered as (*a*), (*b*), (*c*) and (*d*).

Moved by Mr. Thos. Denham and seconded by Mr. M. C. Rangiengar.

*Passed* unanimously.

XXIV. That under Ordinance 25 the following Fellows be appointed members of the Board of Audit :—

1. ..... ..... .....
2. .....
3. ..... .....

Mr. N. S. Subba Rao moved that the present members Dewan Bahadur Mr. C. Srikantesvara Iyer, Mr. M. T. Narayaniengar and Mr. B. M. Srikantiah, be requested to continue.

Mr. M. C. Rangiengar seconded.

*Passed* unanimously.

XXV. Proposition by the Senate Committee :—

That the results of the B. A. and B. Sc. Examinations shall be published in three classes :—

The qualifications for First Class being 60% and over.
Do Second Class being between 50% and 60%.
Do Third Class being between 40% and 50%.

Moved by Mr. E. P. Metcalfe and seconded by Mr. N. S. Subba Rao.

With the permission of the majority of the House, Mr. F. L. Usher moved the following amendment which was seconded by Mr. E. P. Metcalfe :—

Add the following proviso :—"Provided that, in the case of the B. Sc. Examination, for purposes of classification the maximum mark for the subsidiary subject shall be reduced to 250 and each candidate's marks for the subsidiary subject, reduced correspondingly, shall be added to his marks for the main subject, the classification being determined on the total so obtained by the application of the above rule."

Mr. J. S. Chakravarti opposed the amendment and stated that for the time being marking might be regulated according to the main proposition.

Mr. B. Venkatanaranappa was against having high marks for subsidiary subjects.

Mr. F. L. Usher explained the amendment proposed by him.

Votes were then taken on the amendment.

Seventeen voted for and two against.

*Passed.*

Main proposition with amendment was then put to the vote.

The majority were in favour.

*Passed.*

XXVI. That the numbering of Ordinances as in the Calendar be approved.

*Withdrawn.*

XXVII. Mr. E. P. Metcalfe's propositions :—

(1) That, in view of the experience of the working of the University Courses which has been gained during the past two years, the various Boards of Studies be invited to state what modifications, if any, they would recommend in the Courses.

(2) That it is desirable that the last ordinary Senate Meeting of the academical year be held in February, and that the Ordinance be amended accordingly.

Item No. (1)—Moved by Mr. E. P. Metcalfe and seconded by Mr. N. S. Subba Rao.

Mr. Thos. Denham opposed. Mr. J. S. Chakravarti also opposed the motion and said that it amounted to the Senate inviting the Boards of Studies to do what they (the Boards) were expected to do.

Votes were taken.

Ten voted for and seven against.

*Passed.*

Item No. (2)—Moved by Mr. E. P. Metcalfe and seconded by Mr. N. S. Subba Rao.

Mr. J. S. Chakravarti opposed the motion as being unsuitable for the preparation of the Budget.

The Rev. A. R. Fuller suggested that "March" might be substituted for "February," and Mr. E. P. Metcalfe accepted the change proposed.

Votes were then taken on the proposition.

Fifteen voted for and five against.

*Passed.*

Mr. N. S. Subba Rao proposed that the meeting be adjourned. All being in favour, the following propositions were postponed and the meeting terminated :—

(1) Sri K. D. Rukminiamma's proposition :—

That candidates be permitted to appear in private for the M.A. Degree Examination.

(2) Mr. F. R. Sell's proposition :—

That as the University Entrance Class is intended to be an essential introduction to the University Course it is highly desirable that students should continue to study in their B. A. Course the same second language as they took for the University Entrance Examination.

(3) (*a*) That Commerce shall be one of the optional subjects offered at the Entrance Examination, and include—

(i) Economic Geography of India. | (ii) Book-keeping.

(*b*) That the following be added in Ordinance 57, after III (*b*)—

(*c*) Mathematics, Chemistry and Commerce.

(*d*) Commerce, Recent Economic History of England, and Logic or History.

(4) Proceedings of the Meeting of the Board of Studies in Physical Science held on the 3rd August 1918.

(5) Mr. B. Venkatanaranappa's proposition :—

In Rules of Business of the Senate—

*In Rule No. 1.* Substitute for the word "twelve," the word "fifteen."

" *No. 2.* Substitute for the word "four," the word "seven,"

" *No. 3.* Substitute for the word "two," the word "five,"

" *No. 3.* (*a*) Substitute for the words "15th February" and "15th September" the words "1st January" and "1st August" respectively.

H. V. NANJUNDAYYA,
*Vice-Chancellor and Chairman.*

SPECIAL SUBJECT PROPOSED FOR THE M. A. EXAMINATION OF 1920 IN HISTORY AND ECONOMICS.

*Indian History* (1)

Economic, Social and Political conditions of India as described by Greek and Roman writers,

Or

History of Vijayanagar.

*Indian History* (2)

India as described by the Chinese pilgrims,

Or

The Sikhs.

*Economics* (1)

Indian Currency and Banking.

*Economics* (2)

The Co-operative Movement.

*Political Science* (1)

Modern Federalism.

*Political Science* (2)

Political Thought in the 19th Century.

*European History*

Age of Louis XIV.

THOS. DENHAM,
*Registrar.*

COURSE OF STUDIES.

*Intermediate Examination in Engineering.*

*A. Lectures.*

| | |
|---|---|
| 1. Pure Mathematics. | i. Mensuration.<br>ii. Algebra.<br>iii. Geometry.<br>iv. Co-ordinate Geometry of two dimensions.<br>v. Trigonometry. |
| 2. Applied Mathematics (Course I). | i. Statics.<br>ii. Dynamics. |
| 3. Science. | i. Physics.<br>ii. Chemistry. |
| 4. Geology and Mineralogy. | |
| 5. Elements of Political Economy. | |
| 6. Materials of Construction. | |
| 7. Building Construction (Course I). | |

*B. Practical Works.*

| | |
|---|---|
| 1. Drawing. | i. Freehand drawing including model drawing and sketching.<br>ii. Geometrical Drawing.<br>iii. Building Drawing and Estimating.<br>iv. Mechanical Drawing. |
| 2. Surveying. | i. Chain, Compass, Plane Table and Levelling. |
| 3 Workshop. | i. Lectures.<br>ii. Practice. |
| 4. Practice in Physical and Chemical Laboratory. | |

LECTURES.

1. PURE MATHEMATICS.

1. Mensuration.—Plane and Solid. Areas of irregular figures by Simpson's rule and other methods. Volume of an irregular solid by ordinates and areas of cross sections. Estimation of areas by planimeter, and calculations of surfaces and volumes from actual measurement of objects. Measurement of areas and volumes by weight or displacement.

2. Algebra.—Permutation and combinations, binomial theorem, exponential and logarithmic series, summation of series treated in an elementary manner. Elementary tests of convergence and divergence of series. Solution of equations by graphs and Horner's method.

3. Geometry.—Elements of solid Geometry.

4. Co-ordinate Geometry of two dimensions referred to rectangular co-ordinates.—Simple problems on the straight line, circle, parabola, ellipse, hyperbola, by analytical methods. The principle properties of their axes, foci, conjugate diameters and asymptotes.

5. Plane Trigonometry.—Measurement of angles in degrees and radians. Trigonometrical formulæ of the simple kind, and formulæ for solution of triangles. Use of logarithmic and other tables of sine, cosine, tangent, etc., Solution of triangles. Heights and distances. Elementary trigonometrical equations.

2. APPLIED MATHEMATICS.

*(Course I.)*

(1) Statics.—Composition and resolution of coplanar forces. Couples. General conditions of equilibrium in a plane. Moments. Centre of mass. Work, Friction. Machines Graphs.

(2) Dynamics.—Kinematics.—Displacement in one plane, composition and resolution of displacements, velocities and accelerations. Translation and rotation. Instantaneous centre. Relative and angular velocities and accelerations. Circular and simple harmonic motions. Graphs.

Kinetics.—Newton's laws of motion and their applications. Motion under gravity. Impulse. Work and energy. Projectiles. Circular and simple harmonic motions. Simple and compound pendulums. Impact. Collision of bodies. Moment of inertia and radius of gyration. Graphs.

3. SCIENCE.

1. Physics.—Heat. Temperature. The Construction and use of instruments for measuring temperature. The expansion of solids, liquids and gases with change of temperature. Heat as quantity, and the methods of calorimetry. Change of state. Latent heat; the laws of evaporation; boiling. The conduction of heat. Phenomena attending convection in fluids. Radiation and the laws of cooling. The nature of heat. Determination of dynamical equivalent of heat. The laws of thermodynamics with simple applications. Natural sources of heat, fuels.

Light.—Theory and construction of optical instruments explained in a simple manner.

1. ELECTRICITY AND MAGNETISM.

1. Magnets. Magnetic bodies. The magnetic field, lines of force. Forces and couples on magnets in the magnetic field. The earth's magnetic field. The phenomena of magnetic induction; the magnetic properties of iron and steel. Hysteresis.

2. Electrification; conductors and insulators; the electrostatic field; the electrostatic induction. Charge; potential and capacity of condensers; discharge; current; energy of charged condensers.

3. The more common cells for producing currents. The magnetic field of current galvanometers. The source of energy for maintaining it. Electromotive force. Ohm's law. Resistance and its measurement. Wheatstone's bridge.

The heating effects of currents; fuses; incandescent lamps. Elementary phenomena of electrolysis.

The Clark Cell and the potentiometer system of measuring E. M. F., current, etc.

4. Potential energy of circuit-carrying current placed in magnetic field and derivation of forces and couples on circuit. Application to moving coil instruments (ammeters, voltmeters, etc.).

5. Electro-magnetic induction. Maxwell's law. The variable and steady period of current in a circuit. Simple machines for producing continuous and alternating currents. Induction coil.

2. CHEMISTRY (THEORY).

1. Physical and chemical change. Constitution of matter. Simple and compound substances. Chemical action. Chemical nomenclature and symbols. The atomic theory. Equivalent atomic and molecular weights. Specific and atomic heats. Calculation of weight and volumes of substances involved in chemical reactions. General properties of gases. Liquifaction. Diffustion. Solution. Dissociation. Electrolysis. Kinetic theory of gases and its application.

2. The Chemistry of the following non-metallic elements and their more important compounds.—hydrogen, oxygen, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, arsenic, boron, carbon and silicon.

3. Chemical and physical characteristics of metals as illustrated by sodium, calcium, iron, zinc, lead, mercury, copper, silver and gold.

3. GEOLOGY AND MINERALOGY.

1. Materials of the History of the earth.

Study of the various chronicles compiled respectively by the air, rain, rivers, springs, glaciers, the sea, planets, and animals. Volcanoes and earthquakes, as a key to the records of geological history. Weathering of rocks.

2. Elements of Mineralogy:—Crystalline form, structure, and chemical composition of minerals; their physical properties, as density, hardness, colour, cleavage. Isomorphism,

dimorphism, pseudomorphism. Description of the most important, rockforming minerals. Blowpipe and other tests by which they may be recognised in the laboratory and in the field.

Nature.—Origin and composition of rocks. Igneous, aqueous and metamorphic rocks. Formation of aqueous rock (as sandstones, slate, clay, limestones, etc.,) from granite (as the type of igneous rocks). Microscopical structures of minerals and rocks with practical illustrations.

Structural Geology.—Structure of rock masses, bedding, joints, cleavage, foliation, metamorphism, faults, dip, strike, unconformity, etc.

### 4. POLITICAL ECONOMY.

The idea of political economy and the methods by which they are studied; relation of economic science to practice; the meaning of economic law; demand and consumption; the law of diminishing utility. The factors in production and their combinations; labour and natural agents; increasing and decreasing returns; capital, its influence and the conditions of its accumulation. Value in relation to riches, price, utility and cost of production; determinants of ratios of exchange; the elements of cost; complex problems of value; the theory of international trade and its relation to the home trade. The law of rent; interest and profits; causes of the rates of wages. General theory of the value of money; the value of foreign bills; principles of taxation.

### 5. BUILDING MATERIALS.

1. Stone.—Characterstics and varieties of building stone, varieties met with in Southern India and Mysore. Artificial stones. Quarrying, blasting. Preparation and use.

Bricks and tiles.—Brick and tile earths. Preparation by ordinary methods and by use of machinery. Burning in kilns, clamps and Hoffman's kiln. Characterstics of good bricks and tiles.

3. Limes, Cements, Mortar, Plaster, Concrete (plain and reinforced). Sources, properties, preparation and use. Ordinary and hydraulic mortars, Portland cement and its manufacture. Practical tests of limes and cements.

4. Timber.—Growth and felling. Seasoning, natural and artificial. Conversion, Preservation of timber. Characteristics of good timber. Important varieties in use in Southern India and Mysore.

5. Metals.—Cast iron, wrought iron and steel. Elementary description of processes of their manufacture, varieties, uses, and preservation. Other common metals as copper, zinc, lead and alloys.

6. Colour wash, paints, and varnishes and miscellaneous materials as papering, patty, glazing, etc., Preparation and use.

### 6. ELEMENTARY BUILDING CONSTRUCTION.

*Course I.*

Stone masonry. Brick masonry. Foundations. Carpentry:—Joints, connections, roof frames, doors, windows, and stair cases, etc. Roofs and floors. Arches.

## B. PRACTICAL WORK.

### 1. DRAWING.

(*a*) Free-hand and model drawing including lettering and details of machines.

(*b*) Geometrical Drawing.—(1) Practical Plane Geometry:—Problems on lines, triangles, quadrilaterals, circles, and polygons. Parabola, ellipse, hyperbola, cycloid and spiral and other curves. (2) Practical solid Geometry:—Projections of points, lines and planes. Projection of simple solids. Interpenetration of solids. Isometric projection and elements of perspective.

(*c*) Drawing from copy and sketch and details of machines.

(*d*) Drawing and estimating of small buildings and their parts.

### 2. SURVEYING.

Use and adjustment of instruments. Methods of surveying with the chain, prismatic compass and plane table. Elementary Levelling.

### 3. WORK SHOP PRACTICE.

*A. Lectures—*

(a) Lectures on the construction and use of wood-working tools and machinery.

(b) Lectures on furnace and foundry practice and pattern making.

(c) Lectures on machine cutting tools, cutting speeds, machine construction and machine shop methods, followed by lectures and recitations on steel and its treatment in forging and tempering, gear cutting, metal working, machines and their use.

*B. Practice—*

Fitter's shop. Exercises in chipping and filing to straight edge and surface plate. Scraping. Screwing and tapping. Use of scribing block, surface gauge and squares in marking out work.

Smith's shop.—The forge and its tools. Management of fire. Drawing taper, square, and parallel work. Bending, upsetting, twisting, punching, and cutting. Welding and scarfing. Forging, hardening and tempering tools and springs. Practice in soldering and brazing.

Foundry shop.—Moulders' tools, appliances and materials. The cupola. The brass furnace. Core making. Bench moulding. Blacking, coring and finishing moulds. Vents, gates and risers. Special methods required in brass moulding. Floor moulding. Open sand work.

Carpenters shop.—Sawing, Chipping, planing, joints.

S. CADAMBI,
*Chairman of the Board of Studies in Engineering.*

## OFFICE OF THE INSPECTOR-GENERAL OF EDUCATION.

*Notification D. No. dated 10th January* 1918.

The Inspector-General will be glad to see Government Officers, visitors and other gentlemen on business at his office on every Thursday, not being a gazetted holiday, between hours of 12 noon and 4 P.M.

During his absence on tour from Headquarters, the Deputy Inspector-General of Education or the Assistant to the Inspector-General of Education, will receive visitors and attend to them.

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*Notification D. No.* 46, *dated 11th November* 1918.

With a view to provide facilities for giving training in English to candidates who have passed the Kannada Lower Secondary Examination to enable them to pass the English Lower Secondary Examination and become qualified to join High Schools within two years after their passing the Kannada Lower Secondary Examination, special English classes will be opened at the following centres. Students wishing to join these classes should apply immediately to the Head Masters concerned. If a sufficient number of applicants are forthcoming the Head Masters should report and obtain orders so as to make it possible to get the classes into working order by the 1st January 1919.

| *Mysore Circle.* | *Bangalore Circle.* |
|---|---|
| 1. A.-V. School, Chamrajnagar. | 1. A.-V. School, Fort, Bangalore. |
| 2. Do Tumkur. | 2. Do Kolar. |
| 3. Do Chikmagalur. | 3. Do Chikballapur. |
| 4. Do Lakshmipuram, Mysore. | 4. Do Shimoga. |
| 5. Do Hassan. | 5. Do Sagar. |
| 6. Do Tiptur. | 6. Do Chitaldrug. |
| 7. Do Tarikere. | 7. Govt. High School, Channapatna. |
| 8. Do Mudgere. | 8. Kannada High School, Dodballapur. |
| 9. Kannada High School, Hole-Narsipur. | 9. Do Tirthahalli. |
| 10. Do Nanjangud. | |

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*Notification D. No.* 53, *dated* 25*th November* 1918.

MYSORE LOCAL EXAMINATIONS.

In modification of the Notification D. No. 20, dated the 20th November 1918, it is hereby declared that the Examination for Proficiency in Sewing will commence from Tuesday the 1st April 1919, instead of Monday the 21st April 1919.

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*Notification D. No.* 54, *dated* 25*th November* 1918.

The monthly magazine entitled "South Indian Research" in English, edited by Mr. T. Rajagopala Rao, B.A., Vepery, Madras, is recommended for the Libraries of English High Schools in the State.

The annual subscription for the magazine is fixed at Rs. 6, (lower rate) and Rs. 12, (higher rate) and copies can be had of the Editor.

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*Notification D. No.* 56, *dated* 27*th November* 1918.

The monthly Journal entitled "The Business World" published by the Business World Publishing Co., 119—120, Armenian Street, Madras, is recommended for the use of the Commercial Schools in the State.

The Annual subscription for the Journal is Rs. 5.

C. R. REDDY,
*Inspector-General of Education.*